

COM'TRACK - Compact Tracking Antenna System



for Compact
Ground Station
with Cortex RTR

IN-SNEC®

COM'TRACK is an S-band monopulse tracking antenna design for various applications. It is currently in use for aircraft and helicopter flight test telemetry, UAV up and down link ground vehicle telemetry, ammunition and short range missile test.

COM'TRACK can receive video or data telemetry, with distant receiver.

Antenna Control Unit is done by software running on any standard PC thus the antenna can be fully remotely controlled.

Its light weight allows easy integration on vehicle or telescopic mast for mobile application.

All in ONE DATA LINK SOLUTION

Main Functions

- Signal receiving, control and processing
- Video and data telemetry in s-band
- Tracking target
- Remote control

Main Applications

- Surveillance solutions using aircraft, UAV, helicopter, ground vehicles
- Flight test
- Data link

Main Features

- All type of interferences and location management
- Long range directional coverage
- Short range zenithal coverage
- An intuitive GUI with automatic acquisition & tracking capability
- Remote monitoring & control through RS422/232 link
- Two circular Rx down link
- Scanning mode
- Autotrack mode

Main Benefits

- Very fast results within minutes
- Transportability
- Fully integrated
- Easy operation
- Light weight
- Easy installation
- Easy to use
- Cost effective

ZODIAC DATA SYSTEMS

AEROSAFETY & TECHNOLOGY
Telemetry & Telecommunications

ZODIAC
AEROSPACE 

Technical specifications

Electrical specifications

Antenna Type	Directional	Zenithal
Bandwidth	2180-2480 MHz	2180-2480 MHz
Gain (typ) @2250 MHz, 20°C	20 dBi	3 dBi
Polarization	RHCP, LHCP Dual circular	LHCP
3 dB beamwidth		
Az-plane	10°	360°
E-plane	17°	105°
Side lobes level	-14 dB typ.	
Pointing accuracy	± 1°	
Monopulse / slave tracking		
Azimuth rotation	continuous, unlimited	
Preferential elevation angle	+8.5° (factory configurable)	
Rotation speed	≥ 30°/s	
Acceleration	≥ 30°/s ²	

Mechanical characteristics

Dimensions (Height x Diameter)	635 x 800 mm
Weight	< 35 kg
Vibration	MIL-STD 810B
Shocks	MIL-STD 810E
Electromagnetics design compliant with MIL-STD 461D	

Power supply

Voltage	230 VAC or 115 VAC ± 5% 50-60Hz
Consumption	typical 150W

Environmental specifications

Temperature range	
Operating	-25°C to +44 °C
Storage	-35°C to +60 °C
Relative humidity	100%, at 25°C
Rain	IP3
Wind	180 km/h

COM'TRACK - S-band

BASIC SUPPLIES

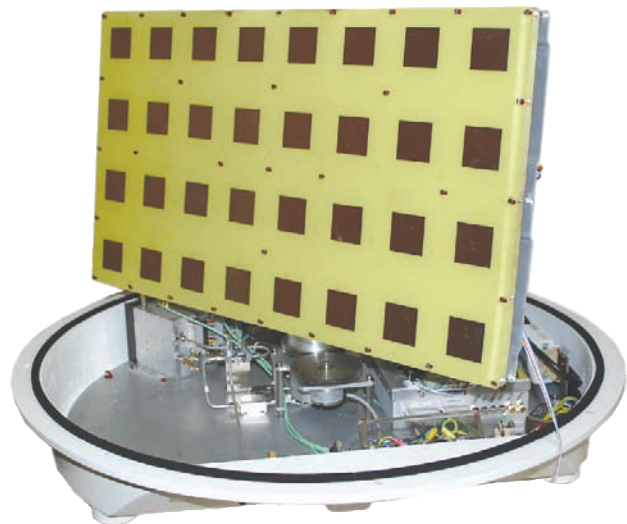
COM'TRACK is delivered with these **basic supplies**

- ▶ 1 carrying case
- ▶ 1 set of cables
- ▶ 1 test result book
- ▶ 1 CDrom including :
 - ▶▶ A setup program running on Windows
 - ▶▶ GUI for the station monitoring & control
 - ▶▶ Installation, User, Maintenance Manual

OPTIONS

- ▶ Directional antenna with vertical polarization
- ▶ Narrow band receiving filter : 2250-2360 MHz
- ▶ Cables (Supply, RF, IF, AGC) : 20m, 40m or 80 m
- ▶ Mechanical extender
- ▶ Computer

Internal View



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